RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/721,553_

Source: _____

Date Processed by STIC: _____

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RAW SEQUENCE LISTING   DATE: 10/19/2004
PATENT APPLICATION: **US/10/721,553**   TIME: 08:58:09

Input Set : **N:\Crf3\RULE60\10721553.raw.txt**
Output Set: **N:\CRF4\10192004\J721553.raw**

```
 1 <110> APPLICANT: Batra, Surinder K.
 2        Hollingsworth, Michael A.
 3        University of Nebraska Board of Regents
 4 <120> TITLE OF INVENTION: Novel Gene That is Amplified and
 5        Overexpressed in Cancer and Methods of Use Thereof
 6 <130> FILE REFERENCE: UNMC63121
 7 <140> CURRENT APPLICATION NUMBER: US/10/721,553
 8 <141> CURRENT FILING DATE: 2003-11-25
 9 <150> PRIOR APPLICATION NUMBER: US/09/647,143
10 <151> PRIOR FILING DATE: 2000-09-27
11 <150> PRIOR APPLICATION NUMBER: PCT/US99/06633
12 <151> PRIOR FILING DATE: 1999-03-26
13 <150> PRIOR APPLICATION NUMBER: 60/079,649
14 <151> PRIOR FILING DATE: 1998-03-27
15 <160> NUMBER OF SEQ ID NOS: 22
16 <170> SOFTWARE: FastSEQ for Windows Version 3.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 1937
20 <212> TYPE: DNA
21 <213> ORGANISM: Homo sapiens
22 <400> SEQUENCE: 1
23        ttctcgcccg cccacctcat ctcaacccac tttccgcggg gagcggcgcc aagctgggcc      60
24        ttcctcggat caggcgtccc ctgaagtcgg cacgcccctc tgcgtccccc ttcggtcccg     120
25        ctaggacccc gtccgggctg ccgtcgcctc gtcgctatgg cgcccaccat ccagacccag     180
26        gcccagcggg aggatggcca caggcccaat tcccaccgga ctctgcctga gaggtctgga     240
27        gtggtctgcc gagtcaagta ctgcaatagc ctccctgata tccccttcga ccccaagttc     300
28        atcacctacc ccttcgacca gaacaggttc gtccagtaca aagccacttc cttggagaaa     360
29        cagcacaaac atgacctcct gactgagcca gacctggggg tcaccatcga tctcatcaat     420
30        cctgacacct accgcatcga ccccaatgtt cttctagatc cagctgatga gaaacttttg     480
31        gaagaggaga ttcaggcccc caccagctcc aagagatccc agcagcacgc gaaggtggtg     540
32        ccatggatgc gaaagacaga gtacatctcc actgagttca accgttatgg catctccaat     600
33        gagaagcctg aggtcaagat tggggtttct gtgaagcagc agtttaccga ggaagaaata     660
34        tacaaagaca gggatagcca gatcacagcc attgagaaga cttttgagga tgcccagaaa     720
35        tcaatctcac agcattacag caaaccccga gtcacaccgg tggaggtcat gcctgtcttc     780
36        ccagacttta agatgtggat caatccatgt gctcaggtga tctttgactc agacccagcc     840
37        cccaaggaca cgagtggtgc agctgcgttg gagatgatgt ctcaggccat gattaggggc     900
38        atgatggatg aggaagggaa ccagtttgtg gcctatttcc tgcctgtaga agagacgttg     960
39        aagaaacgaa agcgggacca ggaggaggag atggactatg caccagatga tgtgtatgac    1020
40        tacaaaattg ctcgggagta caactggaac gtgaagaaca aagctagcaa gggctatgag    1080
41        gaaaactact tcttcatctt ccgagagggt gacggggttt actacaatga gttggaaacc    1140
42        agggtccgcc ttagtaagcg ccgggccaag gctggggttc agtcaggcac caacgccctg    1200
43        cttgtggtca aacatcggga catgaatgag aaggaactgg aagctcagga ggcacggaag    1260
44        gcccagctag aaaaccacga accggaggag gaagaggaag aggagatgga gacagaagag    1320
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45      aaagaagctg ggggctcaga tgaggagcag gagaagggca gcagcagtga gaaggagggc    1380
46      agtgaagatg agcactcggg cagcgagagt gaacgggagg aaggtgacag ggacgaggcc    1440
47      agtgacaaga gtggcagtgg tgaggacgag agcagcgagg atgaggcccg ggctgcccgt    1500
48      gacaaagagg agatctttgg cagtgatgct gattctgagg acgatgccga ctctgatgat    1560
49      gaggacagag gacaggccca aggtggcagt gacaatgatt cagacagcgg cagcaatggg    1620
50      ggtggccagc ggagccggag ccacagccgc agcgccagtc ccttccccag tggcagcgag    1680
51      cactcggccc aggaggatgg cagtgaagct gcagcttctg attccagtga agctgatagt    1740
52      gacagtgact gagtcccagg gcattcaggg ctggttcaga caccattatt gtgagcagca    1800
53      aagcactttt ctagtggtct gtttgtgagc ctttcacttg tttgttcccc accccaaac     1860
54      ctttgctgtt aataaagtca acttctcttt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa    1920
55      aaaaaaaaaa aaaaaaa                                                   1937
57 <210> SEQ ID NO: 2
58 <211> LENGTH: 531
59 <212> TYPE: PRT
60 <213> ORGANISM: Homo sapiens
61 <400> SEQUENCE: 2
62      Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His Arg
63       1               5                  10                  15
64      Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val Cys Arg
65                      20                  25                  30
66      Val Lys Tyr Cys Asn Ser Leu Pro Asp Ile Pro Phe Asp Pro Lys Phe
67                      35                  40                  45
68      Ile Thr Tyr Pro Phe Asp Gln Asn Arg Phe Val Gln Tyr Lys Ala Thr
69              50                  55                  60
70      Ser Leu Glu Lys Gln His Lys His Asp Leu Leu Thr Glu Pro Asp Leu
71      65                  70                  75                  80
72      Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr Arg Ile Asp Pro
73                      85                  90                  95
74      Asn Val Leu Leu Asp Pro Ala Asp Glu Lys Leu Leu Glu Glu Glu Ile
75                      100                 105                 110
76      Gln Ala Pro Thr Ser Ser Lys Arg Ser Gln Gln His Ala Lys Val Val
77              115                 120                 125
78      Pro Trp Met Arg Lys Thr Glu Tyr Ile Ser Thr Glu Phe Asn Arg Tyr
79          130                 135                 140
80      Gly Ile Ser Asn Glu Lys Pro Glu Val Lys Ile Gly Val Ser Val Lys
81      145                 150                 155                 160
82      Gln Gln Phe Thr Glu Glu Glu Ile Tyr Lys Asp Arg Asp Ser Gln Ile
83                      165                 170                 175
84      Thr Ala Ile Glu Lys Thr Phe Glu Asp Ala Gln Lys Ser Ile Ser Gln
85                      180                 185                 190
86      His Tyr Ser Lys Pro Arg Val Thr Pro Val Glu Val Met Pro Val Phe
87              195                 200                 205
88      Pro Asp Phe Lys Met Trp Ile Asn Pro Cys Ala Gln Val Ile Phe Asp
89          210                 215                 220
90      Ser Asp Pro Ala Pro Lys Asp Thr Ser Gly Ala Ala Ala Leu Glu Met
91      225                 230                 235                 240
92      Met Ser Gln Ala Met Ile Arg Gly Met Met Asp Glu Glu Gly Asn Gln
93                      245                 250                 255
94      Phe Val Ala Tyr Phe Leu Pro Val Glu Glu Thr Leu Lys Lys Arg Lys
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 95                  260               265               270
 96        Arg Asp Gln Glu Glu Glu Met Asp Tyr Ala Pro Asp Asp Val Tyr Asp
 97            275               280               285
 98        Tyr Lys Ile Ala Arg Glu Tyr Asn Trp Asn Val Lys Asn Lys Ala Ser
 99            290               295               300
100        Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe Arg Glu Gly Asp Gly
101            305               310               315               320
102        Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val Arg Leu Ser Lys Arg Arg
103                              325               330               335
104        Ala Lys Ala Gly Val Gln Ser Gly Thr Asn Ala Leu Leu Val Val Lys
105                340               345               350
106        His Arg Asp Met Asn Glu Lys Glu Leu Glu Ala Gln Glu Ala Arg Lys
107            355               360               365
108        Ala Gln Leu Glu Asn His Glu Pro Glu Glu Glu Glu Glu Glu Glu Met
109            370               375               380
110        Glu Thr Glu Glu Lys Glu Ala Gly Gly Ser Asp Glu Glu Gln Glu Lys
111            385               390               395               400
112        Gly Ser Ser Ser Glu Lys Glu Gly Ser Glu Asp Glu His Ser Gly Ser
113                              405               410               415
114        Glu Ser Glu Arg Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser
115                420               425               430
116        Gly Ser Gly Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala Arg
117            435               440               445
118        Asp Lys Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp Ala
119            450               455               460
120        Asp Ser Asp Asp Glu Asp Arg Gly Gln Ala Gln Gly Gly Ser Asp Asn
121        465               470               475               480
122        Asp Ser Asp Ser Gly Ser Asn Gly Gly Gly Gln Arg Ser Arg Ser His
123                              485               490               495
124        Ser Arg Ser Ala Ser Pro Phe Pro Ser Gly Ser Glu His Ser Ala Gln
125            500               505               510
126        Glu Asp Gly Ser Glu Ala Ala Ala Ser Asp Ser Ser Glu Ala Asp Ser
127            515               520               525
128        Asp Ser Asp
129            530
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132 <211> LENGTH: 20
133 <212> TYPE: DNA
134 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 3
136        agtgacaaga gtggcagtgg                                        20
138 <210> SEQ ID NO: 4
139 <211> LENGTH: 20
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
142 <400> SEQUENCE: 4
143        gaggacagag gacaggccca                                        20
145 <210> SEQ ID NO: 5
146 <211> LENGTH: 20
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147 <212> TYPE: DNA
148 <213> ORGANISM: Homo sapiens
149 <400> SEQUENCE: 5
150        cactcggccc aggaggatgg                                    20
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 20
154 <212> TYPE: DNA
155 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 6
157        gacagtgact gagtcccagg                                    20
159 <210> SEQ ID NO: 7
160 <211> LENGTH: 19
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 7
164        ctggatggtg ggcgccata                                     19
166 <210> SEQ ID NO: 8
167 <211> LENGTH: 19
168 <212> TYPE: DNA
169 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 8
171        cctggtcccg ctttcgttt                                     19
173 <210> SEQ ID NO: 9
174 <211> LENGTH: 19
175 <212> TYPE: DNA
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 9
178        ctaaggcgga ccctggttt                                     19
180 <210> SEQ ID NO: 10
181 <211> LENGTH: 21
182 <212> TYPE: PRT
183 <213> ORGANISM: Homo sapiens
184 <400> SEQUENCE: 10
185        Arg Tyr Gly Ile Ser Asn Glu Lys Pro Glu Val Lys Ile Gly Val Ser
186         1               5                  10                  15
187        Val Lys Gln Gln Phe
188                     20
190 <210> SEQ ID NO: 11
191 <211> LENGTH: 22
192 <212> TYPE: PRT
193 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 11
195        Glu Thr Arg Val Arg Leu Ser Lys Arg Arg Ala Lys Ala Gly Val Gln
196         1               5                  10                  15
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198                     20
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 18
202 <212> TYPE: DNA
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203 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 12
205       ttcagtcagg caccaacg                                          18
207 <210> SEQ ID NO: 13
208 <211> LENGTH: 18
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 13
212       cgctggccac ccccattg                                          18
214 <210> SEQ ID NO: 14
215 <211> LENGTH: 11
216 <212> TYPE: PRT
217 <213> ORGANISM: Homo sapiens
218 <400> SEQUENCE: 14
219       Arg Val Arg Leu Ser Lys Arg Arg Ala Lys Ala
220       1               5                   10
222 <210> SEQ ID NO: 15
223 <211> LENGTH: 39
224 <212> TYPE: PRT
225 <213> ORGANISM: Drosophila melanogaster
226 <400> SEQUENCE: 15
227       Ser Asp Arg Arg Ser Asn Lys Pro Ile Met Glu Lys Arg Arg Arg Ala
228       1               5                   10                  15
229       Arg Ile Asn Asn Cys Leu Asn Glu Leu Lys Ala Asp Ile Leu Glu Lys
230                       20                  25                  30
231       Thr Val Lys His Leu Gln Glu
232                   35
234 <210> SEQ ID NO: 16
235 <211> LENGTH: 40
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
238 <400> SEQUENCE: 16
239       His Arg Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Val Val Cys
240       1               5                   10                  15
241       Arg Val Lys Tyr Cys Asn Ser Leu Asp Ala Thr Ser Leu Glu Lys Gln
242                       20                  25                  30
243       His Lys His Asp Leu Leu Thr Glu
244                   35                  40
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 18
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
250 <400> SEQUENCE: 17
251       Ser Phe Gly Glu Leu Ala Leu Ile Tyr Gly Tyr Pro Arg Ala Ala Thr
252       1               5                   10                  15
253       Val Lys
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 18
257 <212> TYPE: PRT
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/19/2004
PATENT APPLICATION: US/10/721,553   TIME: 08:58:10

Input Set : N:\Crf3\RULE60\10721553.raw.txt
Output Set: N:\CRF4\10192004\J721553.raw

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 43,44,45,46,47,48,49,50,51,52,53,54,55
Seq#:3; Line(s) 136
Seq#:4; Line(s) 143
Seq#:5; Line(s) 150
Seq#:6; Line(s) 157
Seq#:7; Line(s) 164
Seq#:8; Line(s) 171
Seq#:9; Line(s) 178
Seq#:12; Line(s) 205
Seq#:13; Line(s) 212

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/721,553**

DATE: 10/19/2004
TIME: 08:58:10

Input Set : **N:\Crf3\RULE60\10721553.raw.txt**
Output Set: **N:\CRF4\10192004\J721553.raw**